SEMESTER EXAMINATION, DECEMBER -2022

Course Name:- B.tech **Semester:- 1st**

Paper Name :- Environmental Science **Paper Code:- TMC-101**

Time - 2Hrs + 20 minutes per hour extra time for V.I. & examinees with writer. **Max Marks-70**

समय– 2 घण्टे+ 20 मिनट प्रति घंटे अतिरिक्त–दृष्टिबाधित एवं साहलेखक परीक्षार्थियों के लिए। अधिकतम अंक–70

Instructions:

- The question paper consists of three sections namely A, B, C. All sections are compulsory.
- Section A- Each question carries04 marks. All questions are compulsory.
- Section B- Answer any **2 out of 4** given questions in maximum hundred**(150) words**. Each question carries **10 marks**.
- SectionC- Answer any **2 out of 3** given questions in maximum five hundred **(250) words**. Each question carries **15 marks**.

निर्देश:

- प्रश्न पत्र मेंतीन खण्ड अ, ब, स हैं।सभी खण्डअनिवार्यहैं।
- खण्ड–अ में प्रत्येक प्रश्न **चार** अंक का है। सभी प्रश्न अनिवार्य हैं।
- खण्ड–ब में **चार** प्रश्नों में से किन्हीं **दो** प्रश्नों के उत्तर अधिकतम **डेढ़ सौ** (150) **शब्दों** में दें। प्रत्येक प्रश्न 10 अंक का है।
- खण्ड–स में **तीन** प्रश्नों में से किन्हीं **दो** प्रश्नों के उत्तर अधिकतम **ढाई सौ** (250) **शब्दों** में दें। प्रत्येक प्रश्न 15 अंक का है।

Section – A (खण्ड–अ)

Objective Questions (वस्तुनिष्ठ प्रश्न)

1. Answer allthe following questions. 5×4=20

निम्नलिखित सभी प्रश्न अनिवार्य हैं।

i) Alpha diversity is present

a) within the community of an ecosystem
b) in between two community of an ecosystem
c) within the different ecosystem of an area
d) in between two community of an ecosystem (None of above)

ii) Which of the following pyramids can never be inverted in a natural ecosystem?

a) Pyramids of number
b) Pyramids of Biomass
c) Pyramids of energy
d) All can be inverted

iii) In which of the following process earthworms decompose biodegradable solid waste?

a) Composting
b) Land fills
c) Shredding
d) Vermi-composting

iv) Which of the following type of pollution is Cultural eutrophication

a) Noise pollution
b) Water pollution
c) Soil pollution
d) Thermal pollution

v) Which of the following water treatment process is done after filtration of water?

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a) Primary sedimentation

b) Secondary sedimentation

c) Disinfection

d) Flocculation

Section – B (खण्ड–ब)

Short Answer Questions (लघुउत्तरीय प्रश्न)

2. Answer any two of the following questions in maximum 150 words. **10×2=20**

निम्नलिखित में से किन्हीं दो प्रश्नों के उत्तर अधिकतम 150 शब्दों में दें।

i) What do you understand by greenhouse effect, global warming and climate change?

ii) Explain the structure and function of an ecosystem.

iii) Write a note on 'Narmada bachao andolan'

iv) Discuss different types of biodiversity with example.

Section – C (खण्ड–स)

Descriptive Questions (विवरणात्मक प्रश्न)

3. Answer any two of the following question in maximum 250 words. **2×15=30**

निम्नलिखित मे से किन्हीं दो प्रश्नों के उत्तर अधिकतम 250 शब्दों में दें।

i) What are the threats occurring on biodiversity and suggest the conservation method utilize for it?

ii) Give in detail the causes, effect and control measure for water pollution.

iii) Discuss in brief about the 'Wildlife protection Act, 1972'.

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